

KCC 4779 (K.C. No. 17,026)
PATENT

This listing of claims will replace the prior version of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A process for manufacturing a cellulosic paper product, the process comprising:

forming an aqueous suspension of papermaking fibers;
depositing said aqueous suspension of papermaking fibers onto a sheet-forming fabric to form a wet web;
dewatering said wet web to form a partially dewatered web;
topically applying a glycol compound selected from the group consisting of polyethylene glycol, triethylene glycol, glycerol and mixtures thereof to said partially dewatered web, said partially dewatered web having a fiber consistency of about 80% or less; and

drying said partially dewatered web by passing heated air at a temperature of at least about 175°C through said web.

Claim 2 (original): A process as set forth in claim 1 wherein said glycol compound is polyethylene glycol having a molecular weight of from about 400 to about 800.

Claim 3 (original): A process as set forth in claim 2 wherein said glycol compound comprises polyethylene glycol having a molecular weight of approximately 600.

Claim 4 (original): A process as set forth in claim 3 wherein said glycol compound is topically applied to said partially dewatered web in an add-on amount of about 0.5 to about 20% by weight of said papermaking fibers in said partially dewatered web.

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Claim 5 (original): A process as set forth in claim 4 wherein said glycol compound is topically applied to said partially dewatered web in an add-on amount of about 1 to about 2% by weight of said papermaking fibers in said partially dewatered web.

Claim 6 (original): A process as set forth in claim 4 wherein the temperature of said heated air is from about 190° to about 210°C.

Claim 7 (original): A process as set forth in claim 6 wherein the temperature of said heated air is from about 200° to about 205°C.

Claim 8 (original): A process as set forth in claim 3 wherein said glycol compound is topically applied to said partially dewatered web as an aqueous solution comprising from about 1 to about 80% polyethylene glycol.

Claim 9 (original): A process as set forth in claim 8 wherein said aqueous solution of said glycol compound comprises from about 40 to about 60% polyethylene glycol.

Claims 10-11 (withdrawn)

Claim 12 (original): A process as set forth in claim 1 wherein said glycol compound is topically applied to said partially dewatered web by spraying.

Claim 13 (currently amended): A process for manufacturing a cellulosic paper product, the process comprising:
forming an aqueous suspension of papermaking fibers;

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depositing said aqueous suspension of papermaking fibers onto a sheet-forming fabric to form a wet web;

dewatering said wet web to produce a partially dewatered web having a fiber consistency of about 80% or less;

topically applying a glycol compound selected from the group consisting of polyethylene glycol, triethylene glycol, glycerol and mixtures thereof to said partially dewatered web in an add-on amount ranging of from about 0.5% to about 20% by weight of said papermaking fibers in said web; and

drying said partially dewatered web.

Claim 14 (original): A process as set forth in claim 13 wherein said glycol compound is polyethylene glycol having a molecular weight of from about 400 to about 800.

Claim 15 (original): A process as set forth in claim 14 wherein said glycol compound comprises polyethylene glycol having a molecular weight of approximately 600.

Claim 16 (original): A process as set forth in claim 15 wherein said glycol compound is topically applied to said partially dewatered web in an add-on amount of about 1 to about 2% by weight of said papermaking fibers in said partially dewatered web.

Claim 17 (original): A process as set forth in claim 15 wherein said partially dewatered web is dried by passing heated air at a temperature of at least about 190°C through said web.

Claim 18 (original): A process as set forth in claim 17 wherein the temperature of said heated air is from about 190° to about 210°C.

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Claim 19 (original): A process as set forth in claim 18 wherein the temperature of said heated air is from about 200° to about 205°C.

Claim 20 (original): A process as set forth in claim 15 wherein said glycol compound is topically applied to said partially dewatered web as an aqueous solution comprising from about 1 to about 80% polyethylene glycol.

Claim 21 (original): A process as set forth in claim 15 wherein said aqueous solution of said glycol compound comprises from about 40 to about 60% polyethylene glycol.

Claims 22-23 (withdrawn)

Claim 24 (original): A process as set forth in claim 13 wherein said glycol compound is topically applied to said partially dewatered web by spraying.

Claims 25-28 (canceled)